

President 10:1 Ratio Air Spray System

309489E
ENG

For transfer or supply of compatible fluids.

With Evenflo® Automatic Pressure Control

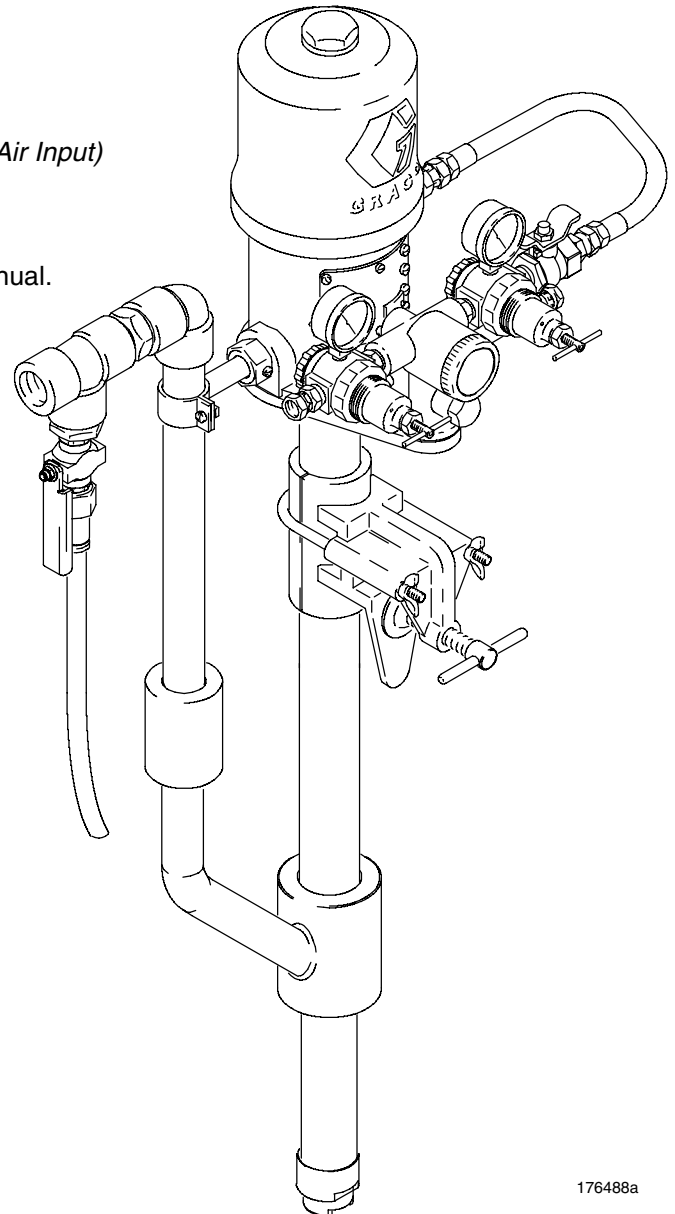
Model 954088, Series A

180 psi (12 bar, 1.2 MPa) Maximum Working Pressure (Air Input)



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.



Related Manuals

Evenflo® Automatic Pressure Control . . . 306479
President Air Motor 306982

176488a



H003

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Symbols

Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

WARNING



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your Graco distributor.
- Do not alter or modify this equipment.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure stated on the equipment or in the **Technical Data** for your equipment. Do not exceed the maximum working pressure of the lowest rated component in your system.
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Handle hoses carefully. Do not pull on hoses to move equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 66°C (150°F) or below -40°C (-40°F).
- Wear hearing protection when operating this equipment.
- Do not move or lift pressurized equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.

WARNING



SKIN INJECTION HAZARD

Spray from the gun, leaks or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin is a serious injury. The injury may look like just a cut, but it is a serious injury. Get immediate surgical treatment.
- Do not point the gun at anyone or at any part of the body.
- Do not put your hand or fingers over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Do not “blow back” fluid; this is not an air spray system.
- Always have the tip guard and the trigger guard on the gun when spraying.
- Check the gun diffuser operation weekly. Refer to the gun manual.
- Be sure the gun trigger safety operates before spraying.
- Lock the gun trigger safety when you stop spraying.
- Follow the **Pressure Relief Procedure** on page 8 if the spray tip clogs and before cleaning, checking or servicing the equipment.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn, damaged, or loose parts immediately. Permanently coupled hoses cannot be repaired; replace the entire hose.



MOVING PARTS HAZARD

Moving parts can pinch or amputate your fingers.

- Keep clear of all moving parts when starting or operating the pump.
- Before checking or servicing the equipment, follow the **Pressure Relief Procedure** on page 8 to prevent the equipment from starting unexpectedly.

WARNING



FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Ground the equipment and the object being sprayed. Refer to **Grounding** on page 5.
- If there is any static sparking or you feel an electric shock while using this equipment, **stop spraying immediately**. Do not use the equipment until you identify and correct the problem.
- Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags, and gasoline.
- Before operating this equipment, electrically disconnect all equipment in the spray area.
- Before operating this equipment, extinguish all open flames or pilot lights in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while spraying or while operating if fumes are present.
- Do not operate a gasoline engine in the spray area.
- Never use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents, or fluids containing such solvents in this equipment. Such use could result in a serious chemical reaction, with the possibility of explosion, which could cause death, serious injury, and/or substantial property damage.

Consult your fluid suppliers to ensure that fluids being used are compatible with aluminum and zinc parts.



TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

Installation

General Information

NOTE: Reference numbers and letters in parentheses refer to callouts in the Figs. and parts drawing.

NOTE: Always use Genuine Graco Parts and Accessories, available from your Graco distributor.

Grounding

⚠ WARNING

FIRE AND EXPLOSION HAZARD
Before operating the pump, ground the system as explained below. Also read the section **FIRE OR EXPLOSION HAZARD** on page 4.

1. *Pump:* use a ground wire and clamp as shown in Fig. 1. Loosen the grounding lug locknut (W) and washer (X). Insert one end of a 12 ga (1.5 mm²) minimum ground wire (Y) into the slot in lug (Z) and tighten the locknut securely. Connect the other end of the wire to a true earth ground. Order part number 222011 Grounding Clamp and Wire.
2. *Air and fluid hoses:* use only conductive hoses.
3. *Air compressor:* follow manufacturer's recommendations.

4. *Spray gun or dispensing valve:* ground through connection to a grounded fluid hose and pump.
5. *Fluid supply container:* follow your local code.
6. *Object being sprayed:* follow your local code.
7. *Solvent pails used when flushing:* follow your local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.
8. *To maintain grounding continuity when flushing or relieving pressure,* hold a metal part of the spray gun firmly to the side of a grounded *metal* pail, then trigger the gun.

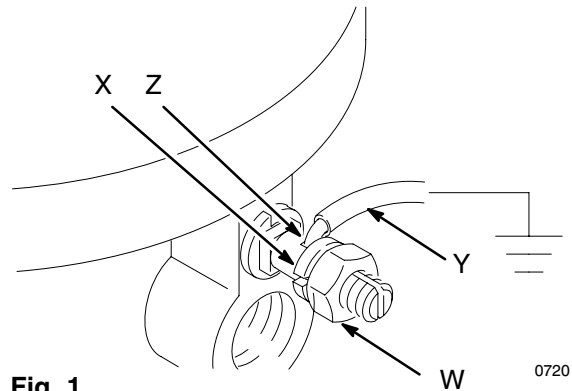


Fig. 1

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Installation

NOTE: Reference numbers and letters in parentheses in the text refer to callouts in the figure illustrations and the parts drawing.

The Typical installation shown on page 7 is only a guide to electing and installing required and optional accessories. For assistance in designing a system to suit your needs, contact your Graco representative.

Mount the pump to suit the type of installation planned. The pump dimensions and mounting hole layout are shown on page 17.

Pail and Drum Length Pumps

Install the pump in the drum or pail, using a suitable cover, bung adapter, or mounting clamp. The pump must be 1/2 in. (13 mm) off the bottom of the pail or drum.

The pump has a by-pass tube, route the tube back to the supply container.

NOTE: In a closed-head drum, be sure to loosen the vent plug in the drum cover to prevent formation of a vacuum.

WARNING

An accessory is required in your system: a bleed-type master air valve (A). This accessory helps reduce the risk of serious injury including injection, splashing in the eyes, and injury from moving parts if you are adjusting or repairing the pump.

The bleed-type master air valve relieves air trapped between this valve and the pump after the air regulator is shut off. Trapped air can cause the pump to cycle unexpectedly. Locate the valve close to the pump.

The fluid drain valve (part of the Evenflo® air regulator installed on pump) assists in relieving fluid pressure in the displacement pump, hose, and gun; triggering the gun to relieve pressure may not be sufficient.

Evenflo® Automatic Pressure Control

An Evenflo® air regulator installed on the pump has a Relax-A-Valve. This regulator prevents initial surging of non-atomized fluid when the gun is triggered. Air pressure in the pump is relieved automatically each time the gun trigger is released. When used with a Relax-A-Valve set in the automatic position, fluid pressure is relieved automatically also. Refer to the Evenflo® Automatic Pressure Manual for additional information.

All Pumps

Install the air line accessories in the approximate order shown in the Typical Installation drawing. A pump runaway valve (B) senses when the pump is running too fast and shuts off the air supply to the motor. For automatic air motor lubrication, install an air line lubricator (D). (For manual lubrication, see Maintenance on page 10). Install the bleed-type master air valve (A) within easy reach of the pump. Install an air regulator (E) to control air to the motor and pump speed. An air line filter (C) removes harmful dirt and moisture from your compressed air supply.

Be sure that the air supply hose is properly grounded, and is at least 1.2 in. (13 mm) ID in order to supply an adequate volume of air to the motor.

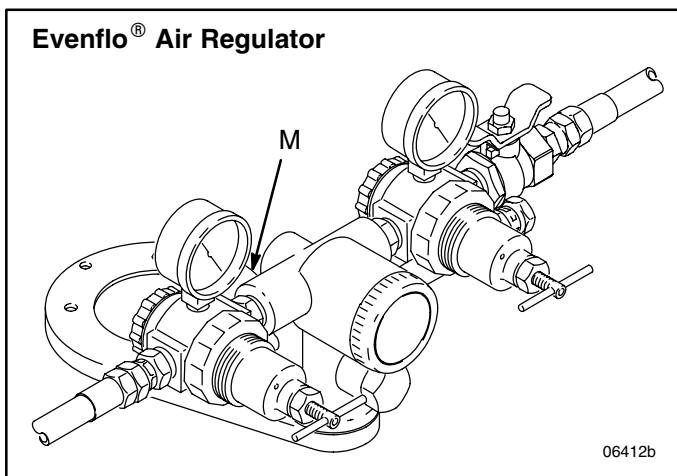
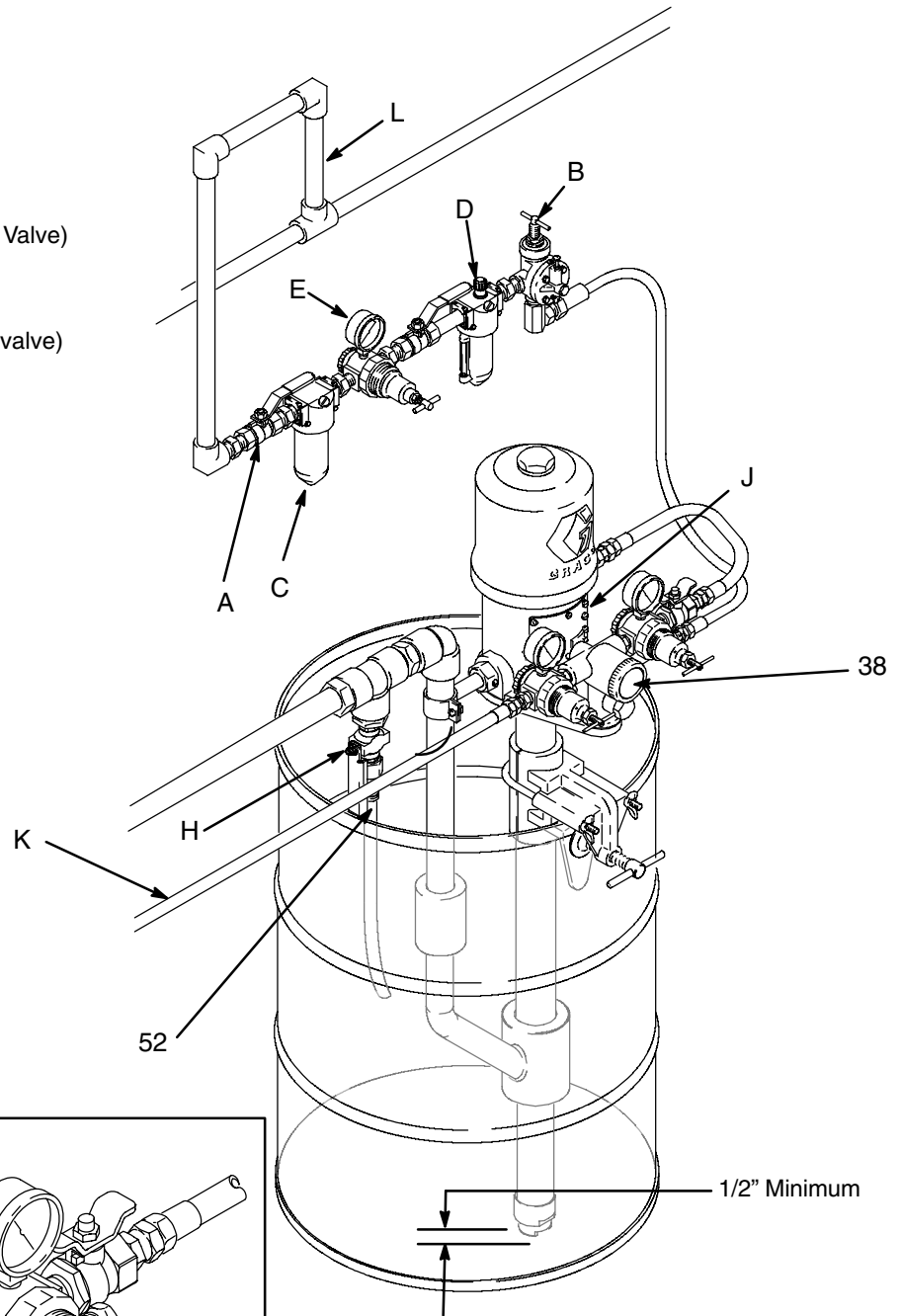
Connect a suitable grounded fluid hose and spray gun or dispensing valve to the pump's 3/4 in. npt outlet.

Installation

Typical Installation

KEY

- A Bleed-Type Master Air Valve
- B Pump Runaway Valve
- C Air Line Filter
- D Air Line Lubricator
- E Pump Air Regulator
- H Drain Valve (part of 38, Evenflo® Valve)
- J Pump Ground Wire
- K Grounded Fluid Hose
- L Grounded Air Hose
- M Evenflo® Control Knob (rear of valve)
- 38 Evenflo® Valve
- 52 By-pass Tube



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Operation

Pressure Relief Procedure

With the Evenflo® control, its bypass valve, and the pump Relax-A-Valve properly set, fluid pressure is relieved from the pump and hose each time you release the gun trigger. Always engage the gun trigger safety when you stop spraying. To relieve air pressure, close the Evenflo regulators and open the bleed-type master air valve.

WARNING



SKIN INJECTION HAZARD

If you suspect that the Evenflo® system is not properly set, or that pressure is not fully relieved, the system pressure

*must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:*

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment,
- or install or clean the spray tips.

1. Engage the spray gun or dispensing valve safety latch.
2. Close the pump air regulator.
3. Close the master bleed-type air valve (required).
4. Disengage the gun or dispensing valve safety latch.
5. Hold a metal part of the gun/valve firmly to a grounded metal waste container and trigger to relieve fluid pressure.
6. Engage the safety latch again.
7. Insure the Relax-A-Valve is set in the automatic position.

*If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, **very slowly** loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. Now clear the tip or hose.*

WARNING

Never operate the pump with the air motor plate removed. Moving parts in the piston can pinch or amputate fingers.

Startup

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

The pump was tested in oil, and some oil was left in the pump to protect it from corrosion. If the oil will contaminate the fluid you are pumping, flush it out.

To Start the Pump:

1. Close the fluid drain valve (H).
2. Open the bleed-type master air valve (A).
3. Open the Evenflo® control knob (M) four full turns.

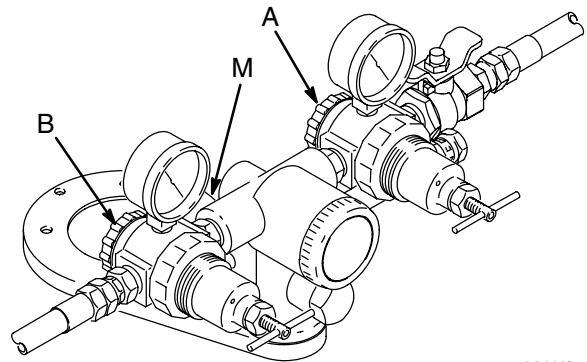


Fig. 2

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4. Holding a metal part of the applicator firmly against the side of a grounded metal pail, hold the trigger open while slowly opening the air regulator (B). While the applicator air is on, slowly open the pump air regulator (A). If the pump does not operate, release the trigger and close the control valve (M) a quarter turn.
5. Repeat this process until the pump operates when the applicator is triggered. Trigger the applicator until flushing of the oil is complete.
6. Gradually adjust the pump and applicator air pressure as needed during normal operation.

Operation

Use the air regulator (A) to control fluid pressure and pump speed. Always use the lowest pressure necessary to get the desired results. Higher pressures cause premature pump wear and spray tip wear, and usually do not improve the spray pattern.

WARNING

To reduce the risk of overpressurizing your system, which could result in component rupture and cause serious injury, never exceed the maximum working pressure of the lowest rated component in your system. Lowering the air pressure to the motor will proportionately lower the fluid outlet pressure from the pump. Refer to the Technical Data on page 16 for the maximum air and fluid working pressure of this pump.

Shutdown and Care of the Pump

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

Relieve the pressure whenever you stop spraying.

Always stop the pump at the bottom of its stroke to prevent fluid from drying on the rod and damaging the throat packings.

If you are pumping fluid which dries, hardens, or sets up, flush the system with a compatible solvent as often as necessary to prevent a build up of dried fluid in the pump or hoses.

Maintenance

Lubrication

If your system includes an automatic air line lubricator, adjust the lubricator as instructed in the separate instruction manual.

For manual lubrication, each day, remove the air inlet hose and place 12 to 15 drops of high quality, light motor oil in the inlet. Reattach the hose and turn on the air to blow the oil into the motor.

Throat Packing Adjustment

⚠ WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

Once a week, or after each 40 hours of operation, check the tightness of the throat packing nut. It should be tight enough to stop leakage, but no tighter.

To check, first **relieve the pressure**. Then, remove the identification plate (M) from the motor. Using a spanner wrench or a 0.22 in (5.6 mm) diameter rod, adjust the nut. Reinstall the identification plate before operating the pump. See Fig. 3.

Flushing

⚠ WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

To reduce the risk of injection injury, static sparking, or splashing in the eyes or on the skin, **relieve the pressure**. Then, remove the spray tip (spray guns or spray valves only) before flushing. Hold a metal part of the gun/valve firmly to the side of a grounded metal pail and use the lowest possible fluid pressure during flushing.

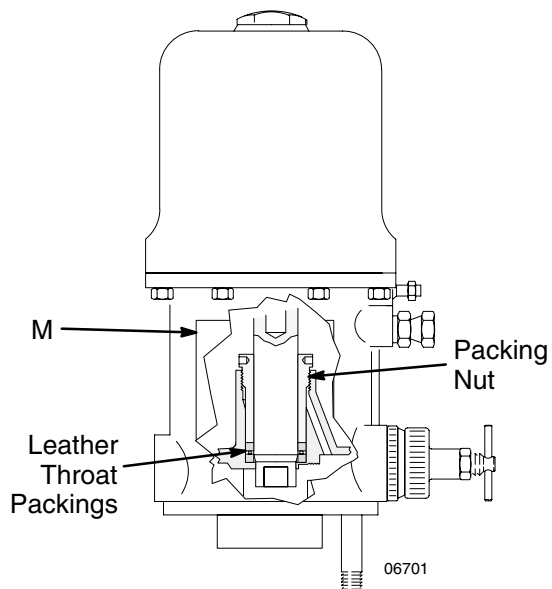


Fig. 3

Corrosion Protection

⚠ WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

⚠ CAUTION

Water, or even moist air, can cause your pump to corrode. To help prevent corrosion, never leave the pump filled with water-based fluid or air. After normal flushing, flush the pump again with mineral spirits or oil-based solvent, and **relieve the pressure**. This leaves the mineral spirits in the pump.

Troubleshooting

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

Relieve the pressure before you check or service any system equipment.

NOTE: Check all possible problems and solutions before disassembling the pump.

WARNING

Never operate the pump with the air motor plate removed. Moving parts in the piston can pinch or amputate fingers.

Problem	Cause	Solution
Pump does not operate, or no fluid flow	Loose or broken pump parts	Disassemble, check, repair
	Restricted line or inadequate air supply	Clear, increase
	Exhausted fluid supply	Refill and prime
	Clogged fluid hoses	Clean, or replace
	Fluid intake or piston valves need adjustment	Adjust, see page 12
	Damaged air motor	Repair; see 306982
Pump operates, but output is low	Insufficient air supply	Increase
	Exhausted fluid supply	Refill and prime
	Obstructed gun or dispensing valve	Clear
	Damaged fluid pump packings	Replace, see page 12
	Held open or worn piston or intake valve	Repair; see page 12
Erratic or accelerated operation	Exhausted fluid supply	Refill and prime
	Fluid intake or piston valve worn	Repair; see page 12

Service

Displacement Pump Repair

Before you start:

1. A packing repair kit, part no. 946761 is available. This kit includes two glands and eight packings for the motor as well as o-rings, packings, and washers for the displacement pump. For the best results use all the parts in the kit.
2. Clean all parts as you disassemble them, using a compatible solvent, and inspect for wear or damage. Replace parts as necessary.

Intake Valve (See Fig. 4)

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 8.

1. **Relieve the pressure.**
2. Unscrew the intake valve housing (27).
3. Remove the ball stop pin (24). Inspect the ball (25) and seat (23) for nicks or scratches.
4. Replace the ball and/or seat if it is damaged, as damaged parts do not seal properly and may cause poor pump performance.
5. If no further service is needed reassemble the intake valve. Be sure the ball stop pin (24) is reinstalled in the proper holes. See Check Valve Adjustment at right.

Piston

6. Unscrew the riser tube (13) from the pump base. Clean the tube and inspect it for wear by holding it up to a light at a slight angle. If you see wavy lines or scratches where the piston travels, replace the tube as it will not seal well with the new piston packings and the pump will perform poorly.
7. Loosen the locknut (15) and unscrew the piston body (16) from the connecting rod (14).
8. Disassemble and clean all parts.

9. Reassemble the piston, using all the new parts from the kit and any other new parts needed. Oil the leather packings (20*) first. Then, reassemble the parts on the piston seat (21) in this order; backup washer (18), leather packing (20*), spacer (19) with a new o-ring (22) installed on it, another leather packing (20*), and backup washer (18*).

NOTE: To replace the throat packings, follow the steps given in your separate air motor manual supplied, before continuing with this procedure.

10. Apply sealant to the threads of the seat (21) and screw onto the piston body (16). Screw the piston onto the connecting rod (14) and adjust the ball travel as instructed in Check Valve Adjustment, below. Tighten the locknut (15).
11. Check the o-ring (11) in the pump base and replace it if necessary.
12. Lubricate the piston packings and the inner wall at the top of the riser tube (13). Wrap the packings with a guide collar made of 1/64 in. maximum thickness shim stock or metal sheeting. Using a turning motion, work the first leather packing into the riser tube. Remove the guide collar and push the riser tube up and screw it into the base. Torque the tube to 100–150 ft-lb (135–204 N•m).

Reassembly

1. Be sure the check valves are properly adjusted. See below.
2. Reinstall the intake valve.
3. Reconnect the pump's ground wire to a true earth ground.

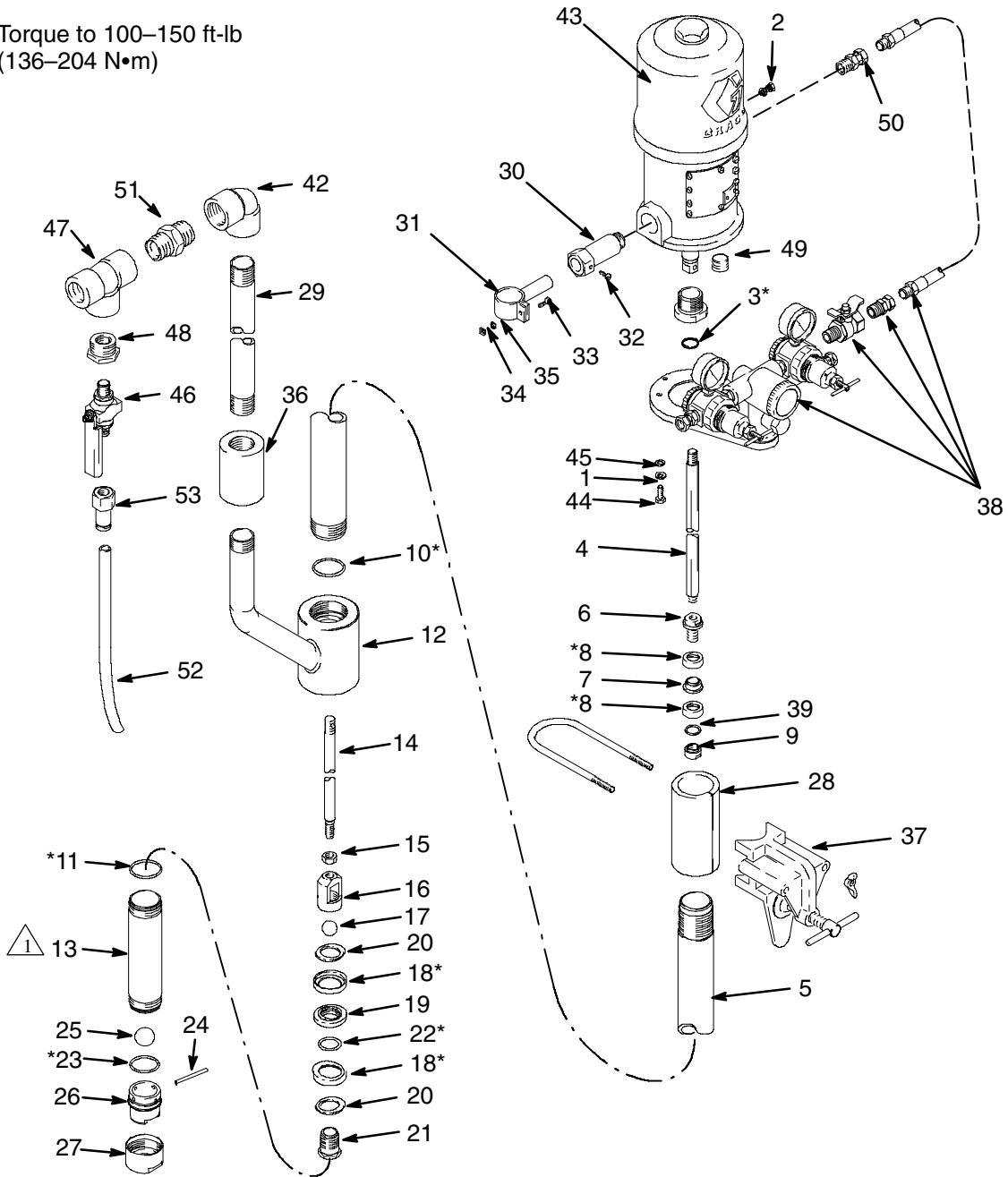
Check Valve Adjustment

These pumps have adjustable fluid intake and piston ball checks, which are factory-set for medium viscosity fluids.

To change the piston ball travel (see Fig. 5) loosen the lock-nut (15). Turn the piston body (16) counter-clockwise to increase and clockwise to decrease. Medium viscosity fluids should have a 3/16 in (5 mm) ball travel. Decreasing the ball travel minimizes surging at stroke changeover, but too short a ball travel restricts the flow and slows down the pump.

To change the intake valve ball travel, move the ball stop pin (24) to a higher or lower set of holes. Use the middle holes for medium viscosity fluids.

⚠ Torque to 100–150 ft-lb
(136–204 N•m)



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Fig. 4

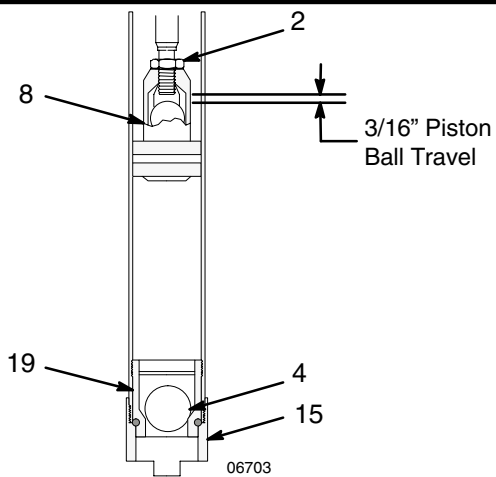
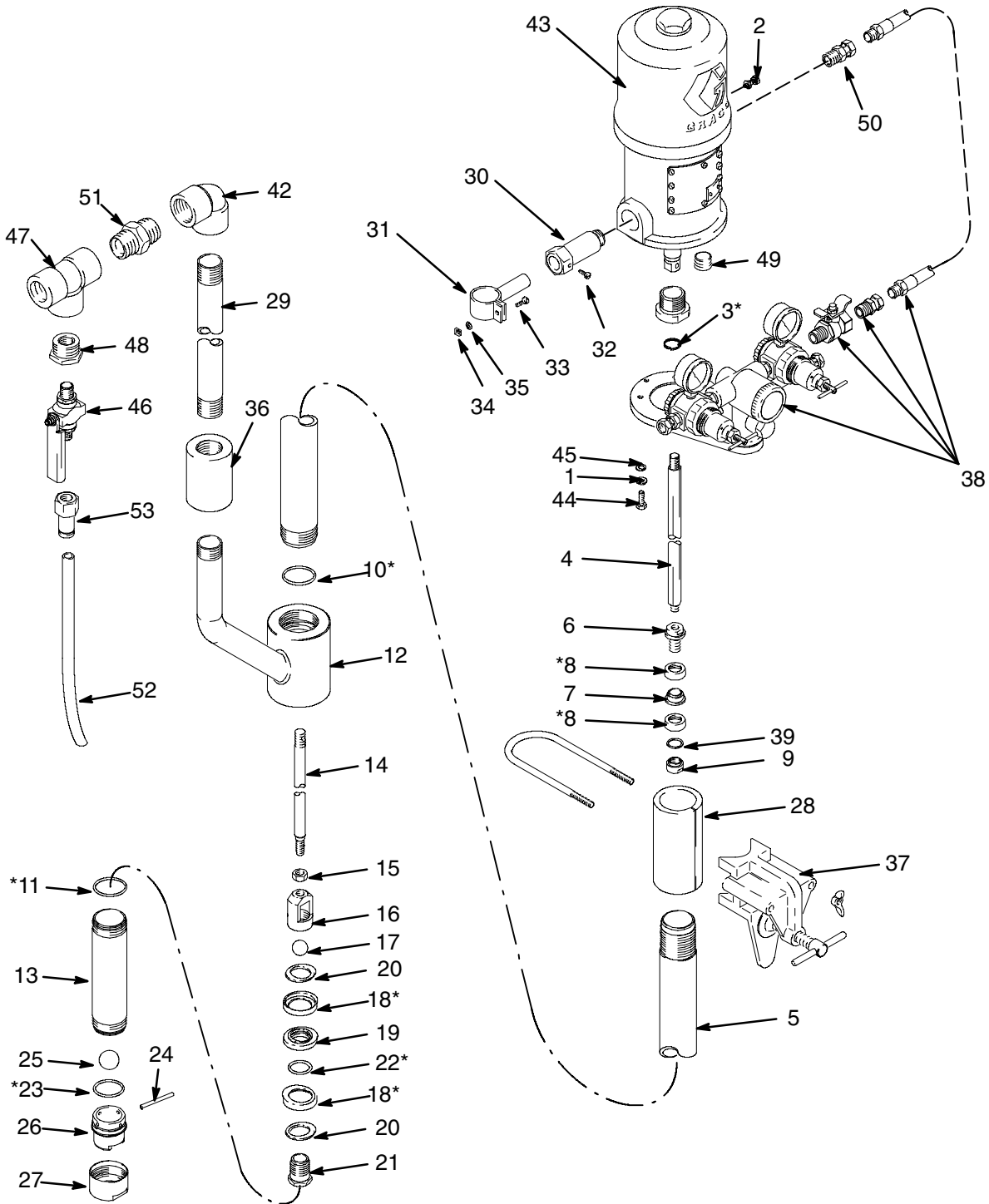


Fig. 5

Parts



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Parts

Model 954088, Series A

Includes items 1–53

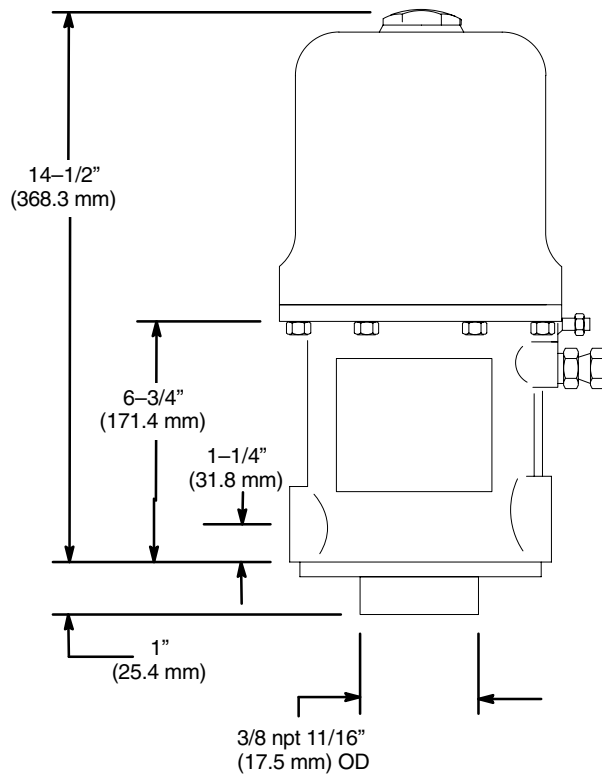
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	100016	WASHER, lock	2	29	620835	FITTING, nipple, pipe	1
2	621201	STUD, clamp	1	30	621201	STUD, clamp	1
3*	510636	PIN, spring, str	1	31	946670	CLAMP, pipe	1
4	620850	ROD, connecting	1	32	104137	SCREW, binder, 10–24 x 3/8	1
5	620832	CYLINDER, pump, displacement	1	33	102790	SCREW, machine, pan hd	1
6	620842	STUD, throat, packing	1	34	100676	NUT	1
7	620841	PACKING, spacer, throat	1	35	100020	WASHER, lock	1
8*	510476	PACKING, cup	2	36	510787	FITTING, coupling, pipe	1
9	620840	PACKING, nut, throat	1	37	203156	CLAMP, pump	1
10*	510473	PACKING, o–ring	1	38	202844	PRESSURE CONTROL, automatic, Evenflo®	
11*	510472	PACKING, o–ring	1			See manual 306479 for parts	1
12	946669	HOUSING, outlet pump	1	39	620985	PACKING, washer, throat	1
13	620833	CYLINDER, pump, disp, 10:1 pres	1	42	510786	FITTING, elbow, pipe	1
14	620849	ROD, connecting	1	43	206078	AIR MOTOR, president	
15	101960	NUT	1			See manual 306982 for parts	1
16	620848	HOUSING, valve	1	44	100022	SCREW, cap, hex hd	2
17	101917	BALL, bearing	1	45	502682	WASHER, flat, cs	2
18*	510475	PACKING, cup	2	46	237469	VALVE, ball, heavy duty	1
19	620837	SPACER, cup	1	47	504134	FITTING, tee, pipe	1
20	620836	WASHER, piston, packing	2	48	500084	BUSHING, hex hd	1
21	620831	SEAT, valve	1	49	101754	PLUG, pipe	1
22*	154662	PACKING, o–ring	1	50	158256	UNION, swivel	1
23*	166238	PACKING, o–ring	1	51	504704	FITTING, nipple, hex	1
24	162947	PIN, straight, headless	1	52	190339	TUBE, by–pass	1
25	101968	BALL, bearing	1	53	112790	CONNECTOR, tube	1
26	186991	HOUSING, valve, intake	1				
27	164630	RING, locking	1				
28	621203	CLAMP, tube	1				

* Parts included in Repair Kit 946761

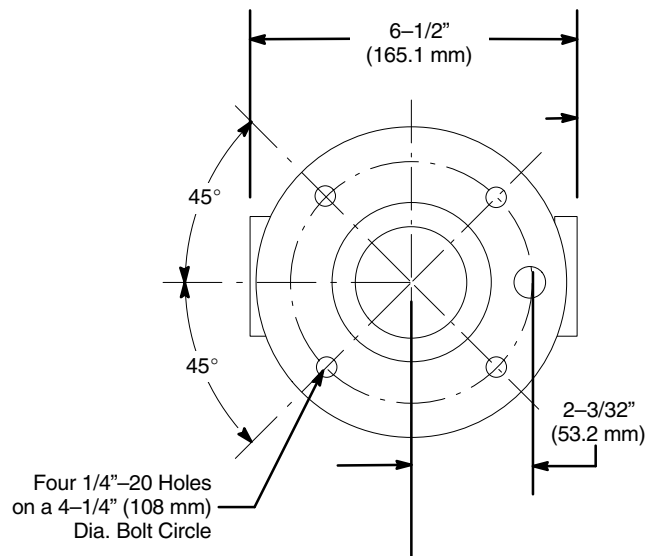
Technical Data

Fluid pressure ratio	10:1
Air pressure operating range	40–180 psi (3–12 bar)
Maximum fluid working pressure	1800 psi (124 bar)
Maximum recommended pump speed	60 cycles/minute
Delivery (continuous duty)	3 gpm (12 liter/min)
Delivery (intermittent duty)	6 gpm (25 liter/min)
Cycles per gallon (liter)	20 (6)
Air motor effective diameter	4–1/4 in. (108 mm)
Pump stroke	4 in. (100 mm)
Air consumption	Approx. 13 CFM per gallon (6m ³ /hr/liter) of fluid at 100 psi (7 bar)
Wetted parts	Steel, Aluminum, Brass, Leather, Buna-N

Dimensions

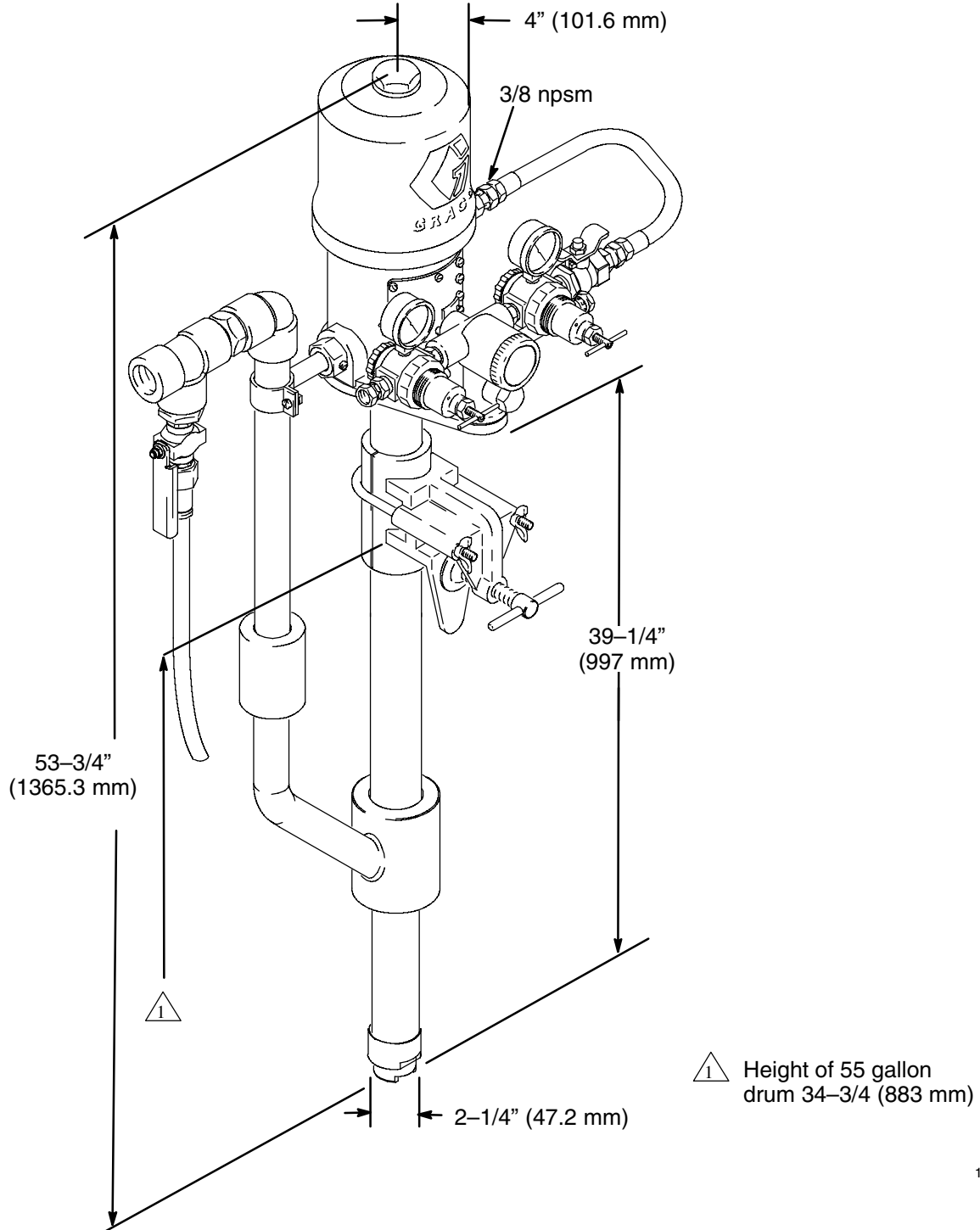


Bottom View



Dimensions

Model 954088, Series A
Weight: 40 lb (18 Kg)



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Graco Standard Warranty

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

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Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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